

Test Review
Rearranging the Line and Pt of Intersection

p 328 q. 1,2
p 330 q. 3,4,5
p 332 q. 6
p 334 q. 11, 12 & 13
p 176 q. 23 & 24

Test Thursday

Apr 28-10:02 AM

$2x + 4y = 40$
 $2x + 4y = 40$
 $ax + by = c$
 $x = \#$ of tables
 $y = \#$ of cabinets
 $(0, 10)$ Sub $x=0$
 $2(0) + 4y = 40$
 $4y = 40$
 $y = 10$
 $y=0$
 $2x + 4(0) = 40$
 $2x + 0 = 40$
 $2x = 40$
 $x = 20$
 $2x + 4y = 40$
 $x=10$
 $2(10) + 4y = 40$
 $20 + 4y = 40$
 $4y = 40 - 20$
 $4y = 20$
 $y = 5$

x	y
0	10
10	5
20	0

If Brody makes 10 tables, He has time to make 5 cabinets.

May 2-1:08 PM

$1.2c + 1.5b = 26.4$
 $1.2c + 1.5y = 26.4$
 $c = \#$ of trips by car
 $y = \#$ of trips by bus
 $y = 12$
 $1.2c + 1.5(12) = 26.4$
 $1.2c + 18 = 26.4$
 $1.2c = 26.4 - 18$
 $1.2c = 8.4$
 $\frac{1.2c}{1.2} = \frac{8.4}{1.2}$
 $c = 7$
 If she travelled 12 times on the bus, she travelled 7 times by car.

May 2-1:23 PM

Rearrange
 $-0.3x - 0.55y = 1$
 $x=0$
 $-0.3(0) - 0.55y = 1$
 $(0, -1.81) - 0.55y = 1$
 $y \text{ int}$
 $y = \frac{1}{-0.55}$
 $y = -1.81$
 $-0.3x - 0.55y = 1$
 $-0.3x - 0.55(0) = 1$
 $-0.3x = 1$
 $(-3.30, 0) - 0.3x = 1$
 $x \text{ int}$
 $x = -3.3$
 $-0.3x - 0.55y = 1$
 $y = mx + b$
 $-0.55y = +0.3x + 1$
 $\frac{-0.55y}{-0.55} = \frac{+0.3x}{-0.55} + \frac{1}{-0.55}$
 $y = -0.54x - 1.81$
 $m = -0.54$

May 2-1:33 PM

$-5x + 3y = 6$
 $Ax + By + C = 0$
 $(A = +ve \quad A = \text{whole \#})$
 $-5x + 3y - 6 = 0$
 $+5x - 3y + 6 = 0$
 $3(\frac{1}{3}x + 5y - 7) = 0(3)$
 $\frac{3}{3}x + 15y - 21 = 0$
 $1x + 15y - 21 = 0$

May 2-1:43 PM

p.176 q. 23
 $x + y = 4$
 $y = -x + 4$
 $x - 2y = 1$
 $-2y = x - 1$
 $y = \frac{1}{2}x - \frac{1}{2}$
 $y_1 = y_2$
 $2(-x + 4) = (\frac{1}{2}x - \frac{1}{2})2$
 $-2x + 8 = \frac{2x}{2} - \frac{2}{2}$
 $-2x + 8 = x - 1$
 $8 = x + 2x - 1$
 $8 = 3x - 1$
 $8 + 1 = 3x$
 $9 = 3x$
 $3 = x$
 $x + y = 4$
 $3 + y = 4$
 $y = 4 - 3$
 $y = 1$
 $(3, 1)$
 P of Int

May 2-1:49 PM

Review Opener

Bell

Net Zero

x = # of minutes

y = Cost in \$

$$y = .03x + 15$$

$$y = .05x + 10$$

$$\begin{aligned} y_1 &= y_2 \\ 0.03x + 15 &= 0.05x + 10 \\ 0.03x + 15 - 10 &= 0.05x \\ 0.03x + 5 &= 0.05x \\ +5 &= 0.05x - 0.03x \\ 5 &= 0.02x \\ \frac{5}{0.02} &= \frac{0.02x}{0.02} \\ 250 &= x \end{aligned}$$

May 1-1:10 PM

$$y = 0.03x + 15$$

$$x = 250$$

$$y = 0.03(250) + 15$$

$$y = 7.5 + 15$$

$$y = 22.5$$

$$(x, y)$$

$$(250, 22.5)$$

At 250 min both companies charge \$22.50. Before 250 min Net Zero is cheaper. After 250 min, Bell is cheaper.

May 1-1:17 PM